

Claims

What is claimed is:

1. A shaving system, comprising:
 - a) a pivot frame;
 - b) a pivot assembly pivotally coupled to said pivot frame; and
 - c) a blade assembly pivotally coupled to said pivot assembly.
2. A shaving system according to claim 1, wherein said blade assembly is rotatable relative to said pivot assembly from a first position to a second position and when in said first position, rotation of said pivot assembly relative to said pivot frame causes rotation of said blade assembly about a center axis of said blade assembly.
3. A shaving system according to claim 2, wherein for said blade assembly is rotatable relative to said pivot assembly from a first position to a second position and when in said second position, rotation of said pivot assembly relative to said pivot frame causes rotation of said blade assembly about a guard-bar axis of said blade assembly.
4. A shaving system according to claim 1, further comprising:
 - d) first biasing means between said blade assembly and said pivot assembly; and
 - e) second biasing means between said pivot assembly and said pivot frame.
5. A shaving system according to claim 4, wherein said first biasing means is stronger than said second biasing means.
6. A shaving system according to claim 4, wherein said second biasing means allows bi-directional rotation of said pivot assembly relative to said pivot frame.

7. A shaving system according to claim 4, wherein said second biasing means allows only uni-directional rotation of said pivot assembly relative to said pivot frame.

5 8. A shaving system according to claim 4, wherein said second biasing means is a cantilevered spring.

9. A shaving system according to claim 4, wherein said second biasing member is a cam follower.

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10. A shaving system according to claim 1, wherein said blade assembly is rotatable approximately 45° relative to said pivot assembly.

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11. A shaving system according to claim 10, wherein said pivot assembly is rotatable approximately $\pm 20^\circ$ relative to said pivot frame.

12. A shaving system according to claim 10, wherein said pivot assembly is rotatable approximately 40° relative to said pivot frame.

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13. A shaving system, comprising:
a) a shaving cartridge that rotates relative to a pivot;
b) a pivot that rotates relative to a pivot frame; and
c) a pivot frame.

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14. A shaving system as set forth in claim 13, wherein said shaving cartridge rotates relative to a pivot going from a center pivot to a guard-bar pivot.

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15. A shaving system as set forth in claim 13, wherein said shaving cartridge rotates relative to a pivot going from a center pivot substantially on said shave plane to a guard-bar pivot substantially on said shave plane.

16. A shaving system as set forth in claim 13, wherein said shaving cartridge rotates relative to a pivot going from a center pivot substantially on said

shave plane to a guard-bar pivot substantially on said shave plane as loading increases.

5 17. A shaving system as set forth in claim 16, wherein said shaving cartridge rotates relative to said pivot going back from a guard-bar pivot substantially on said shave plane to a center pivot substantially on said shave plane as loading decreases.

10 18. A shaving system as set forth in claim 17, wherein said pivot relative to said pivot frame supports unidirectional pivoting.

19. A shaving system as set forth in claim 17, wherein said pivot relative to said pivot frame supports bi-directional pivoting.

15 20. A triple blade shaving system, comprising:
a) a pivot frame;
b) a pivot assembly pivotally coupled to said pivot frame; and
c) a triple blade, blade assembly pivotally coupled to said pivot assembly,

20 wherein said blade assembly is rotatable relative to said pivot assembly from a first position to a second position; and (1) when in said first position, rotation of said pivot assembly relative to said pivot frame causes rotation of said blade assembly about a center axis, substantially on the shave plane, of said blade assembly; and (2) when in said second position, rotation of said pivot assembly relative to said pivot frame causes rotation of said blade assembly, substantially on said shave plane, about a
25 guard-bar axis of said blade assembly.